

RPCM R&R NOD1O1

OBJECTIVE:

Remove a failed RPCM and replace it with a spare.

LOCATION:

Installed: NOD1O1

Stowed: √ Maint DBase

DURATION:

30 minutes (If Alcove Shear Panels have been removed)

PARTS:

RPCM-Int Type V (P/N R077419-31)

MATERIALS:

Wet wipes

Plastic bag

TOOLS REQD:

Equip bag

Tethers

Kit E:

Ratchet 3/8" Drive

6" Ext 3/8" Drive

Driver Handle 1 /4" Drive

Kit D:

5/32" Hex Head Driver, 1 /4" Drive

EVA Kit:

7/16" x 6" Wobble Socket Extension, 3/8" Drive

Kit G:

(5-35 in-lbs) Trq Driver

(30-200 in-lbs) Trq Wrench

REFERENCED PROC(S):

RPCM SAFE FOR MAINTENANCE

NODE1 ALCOVE OVHD SHEAR PANEL REMOVAL

ACTIVATE RPCM

SAFE

WARNING

Failure to remove power can result in electrical shock hazard.

1. Don Anti-Static wrist tether.
2. Perform RPCM SAFE FOR MAINTENANCE procedure.

ACCESS

3. Remove alcove ovhd close-out panel, fasteners (ten)
(Handle 1 /4" Drive, 5/32" Hex Head Driver)(Tempary stow).
4. If Alcove Ovhd Shear Panels have not been removed
Perform NODE1 ALCOVE SHEAR PANEL REMOVAL procedure

Else Go to step 5.

REMOVE

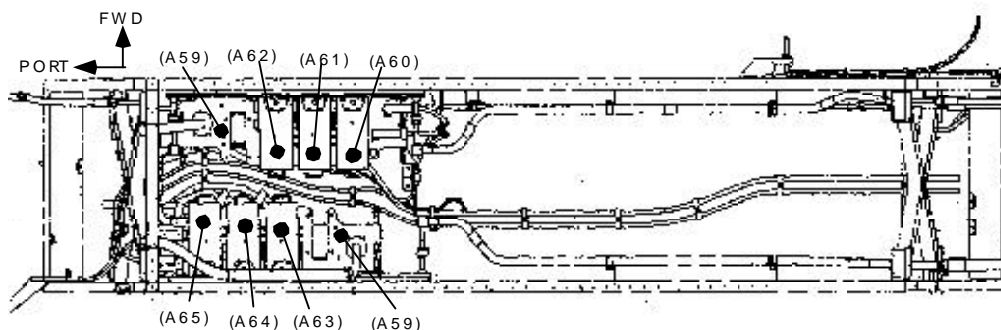


Figure. 1. Nadir View of Node 1 Forward Nadir Alcove(with Closeout and Shear Panel Removed).

Table 1. Node 1 Alcove Ovhd RPDA/RPCM Identification

Name	Ref. Designator	RPCM Type
RPDA N1-RS1	(A64)	N/A
RPCM N1-RS1-A	(A65)	V
RPCM N1-RS1-B	(A66)	V
RPCM N1-RS1-C	(A67)	V
RPDA N1-4B	(A59)	N/A
RPCM N1-4B-A	(A60)	V
RPCM N1-4B-B	(A61)	V
RPCM N1-4B-C	(A62)	V

4. Locate failed RPCM. See Figure 1. and Table 1.

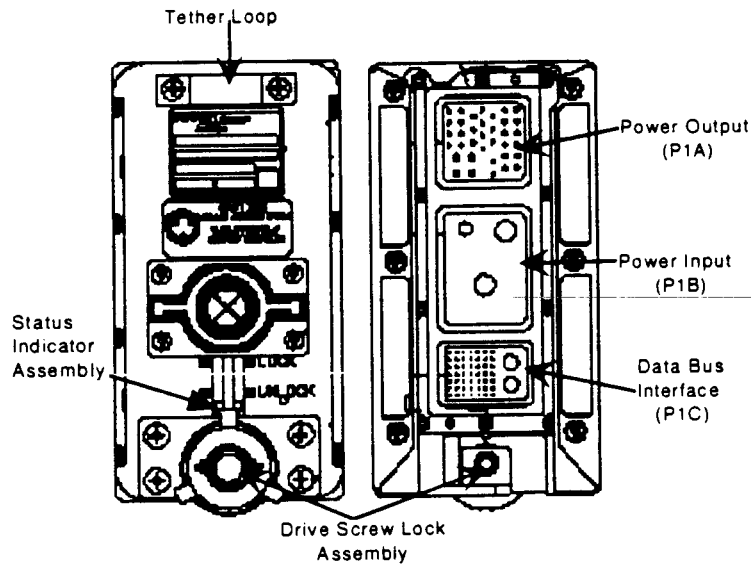
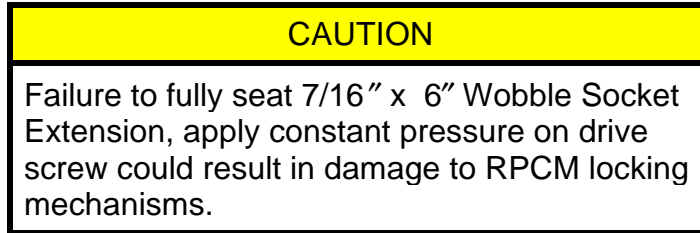


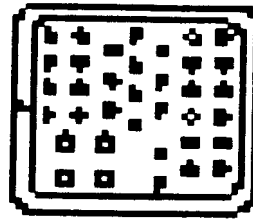
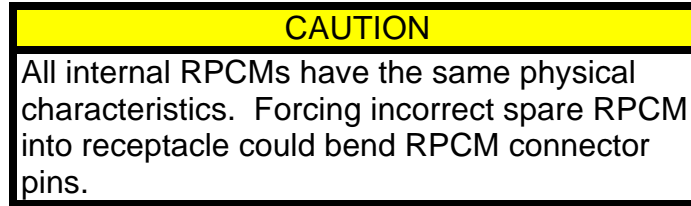
Figure 2. Remote Power Control Module (Front & Back)

6. Apply pressure, loosen failed RPCM drive screw (Ratchet 3/8" Drive, 7/16" x 6" Wobble Socket Ext).
7. ✓ Status indi - UNLOCK
8. Label, remove failed RPCM from receptacle by sliding it off guide rails.
9. Verify replacement RPCM part number RPCM-Int Type V (P/N R077419-31).
10. Remove electrical connector protective caps (two) from replacement RPCM, install on failed RPCM, (Temporarily stow failed RPCM).

REPLACE

11. Inspect RPCM and mounting location for foreign matter/debris, damage to alignment guides, pins.

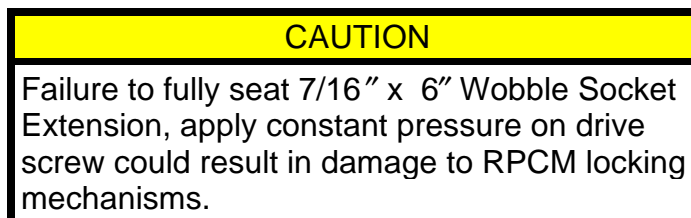
12. Clean coldplate bonding surface with wet wipes.



RPCM int-Type V

Figure 3. RPCM Power Out Connector (Node1)

13. Verify replacement RPCM Power Out connectors pins. See Figure 3.
14. Position replacement RPCM on guide rails of RPDA.
15. Insert RPCM into RPCM receptacle until status indicator reaches UNLOCK position.



16. Apply pressure, tighten RPCM drive screw, torque to 60 +/- 6 in-lbs (Ratchet, 3/8" Drive, 7/16" x 6" Wobble Socket Ext, (30-200in-lbs)Trq Wrench).
17. ✓ Status indi - LOCK

CHECK-OUT

18. Perform ACTIVATE RPCM procedure.

CLOSE-OUT

19. Install zenith closeout panel. Fasteners (ten), torque to 14 +/- 2 in-lbs (Handle 1 /4" Drive, 5/32 " Hex Head Driver, (5-35 in-lbs) Trq Driver).

POST MAINTENANCE

20. Stow failed RPCM, tools, equipment.
21. Update Maint Dbase.